

Title (en)
USER INTERFACE ELEMENTS AUGMENTED WITH FORCE DETECTION

Title (de)
MIT KRAFTMESSFÜHLERN VERSTÄRKTE BENUTZEROBERFLÄCHENELEMENTE

Title (fr)
ÉLÉMENTS D'INTERFACE UTILISATEUR AUGMENTÉS AVEC UNE DÉTECTION DE FORCE

Publication
EP 2710454 A1 20140326 (EN)

Application
EP 12723997 A 20120501

Priority
• US 201161488072 P 20110519
• US 201213416731 A 20120309
• US 2012035992 W 20120501

Abstract (en)
[origin: US2012293551A1] A computing device includes a touch screen display with at least one force sensor, each of which provides a signal in response to contact with the touch screen display. Using force signals from the at least one force sensor that result from contact with the touch screen, the operation of the computing device may be controlled, e.g. to select one of a plurality of overlaying interface elements, to prevent the unintended activation of suspect commands that require secondary confirmation, and to mimic the force requirements of real-world objects in augmented reality applications.

IPC 8 full level
G06F 3/048 (2013.01)

CPC (source: EP KR US)
G06F 3/048 (2013.01 - KR); **G06F 3/0488** (2013.01 - EP US); **G06F 9/06** (2013.01 - KR)

Citation (search report)
See references of WO 2012158337A1

Citation (examination)
• EP 2187298 A2 20100519 - LG ELECTRONICS INC [KR]
• US 2008132313 A1 20080605 - RASMUSSEN JAMES M [US], et al
• US 2011050576 A1 20110303 - FORUTANPOUR BABAK [US], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2012293551 A1 20121122; US 8952987 B2 20150210; CN 103502918 A 20140108; EP 2710454 A1 20140326; EP 3425492 A1 20190109; JP 2014512630 A 20140522; JP 2015046192 A 20150312; JP 5902284 B2 20160413; JP 5944488 B2 20160705; KR 101715992 B1 20170313; KR 20140009510 A 20140122; WO 2012158337 A1 20121122

DOCDB simple family (application)
US 201213416731 A 20120309; CN 201280021445 A 20120501; EP 12723997 A 20120501; EP 18191437 A 20120501; JP 2014239769 A 20141127; JP 2014508192 A 20120501; KR 20137030565 A 20120501; US 2012035992 W 20120501